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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,729	07/20/2004	Bo Widen	0091-0239PUS1	6842

2292 7590 08/02/2005

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EXAMINER

GALL, LLOYD A

ART UNIT	PAPER NUMBER
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3676

DATE MAILED: 08/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/500,729

Applicant(s)

WIDEN, BO

Examiner

Lloyd A. Gall

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 July 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 10/06/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

The disclosure is objected to because of the following informalities: On page 2, line 30, "longitudinal" is misspelled. On page 3, line 21, "relatively" is misspelled.

Appropriate correction is required.

The drawings are objected to because reference numeral "133" (page 10, line 29) cannot be located. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claims 5, 12, 13 and 17 are objected to because of the following informalities: In claim 5, line 3, the first occurrence of "portions" should be replaced with --segments--. The scope of claim 12 is not clear, as to whether it is intended to be an independent

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claim or a claim dependent on claim 1. Further, it is not clear how claim 12 further limits claim 1. Similarly, it is not clear whether claim 13 is intended to be an independent claim or a claim dependent on claim 1, and it is not clear how claim 13 further limits claim 1. Claim 17 is not clear as to whether it is intended to be an independent claim or a claim dependent on claim 12, it is not clear how it further limits claim 12, and it is not clear since it refers to a "key blank" and a "key blade" throughout the claim. Appropriate correction is required.

It is noted that claim 13 is currently assumed to be claiming only a key blade, and claim 17 is currently assumed to be claiming only a key blank.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5-8, 10-14, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Olson (734).

Olson teaches a lock cylinder and key combination including a shell 6, a key plug 8 having locking tumbler assemblies 18, 19 located within the same cavity 16 of rows of cavities 16, a key slot 15 receiving a key 24 having grooves 25 located on its sides, the tumblers having body segments with mutually engaging flat surface portions sliding upon one another and contact finger portions 23 engaged by the coded surface portions of slots 25 of the key. The tumblers are located on each side of the key slot. Olson

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also teaches a key blade of claim 13 and a key blank of claim 17 from which the key blade is formed.

Claims 13, 14 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Widen (816).

As set forth above, claim 13 is assumed to be claiming only a key blade, and claim 17 is assumed to be claiming only a key blank. Widen teaches a key blade and a key blank from which the key blade is formed, including a coded surface 251', 270' in figure 18 which is undercut, and which defines a coded surface for engaging and guiding finger contact portions 105'a of tumblers as seen in figure 14. The code surface defines pairs of code surface portions as seen in figure 17.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson (734) or Widen (816) in view of Prunbauer (074).

Prunbauer teaches a grooved 4 key which is symmetrical (column 2, line 10). It would have been obvious to modify the key of Olson or Widen such that it is symmetrical, in view of the teaching of Prunbauer, the motivation being to allow the key to be inserted in the key slot in either orientation.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson (734) in view of Vonlanthen (986).

In fig. 3, Vonlanthen teaches tumbler body segments having a part-cylindrical shape 10 to be guided by wall portions of the cavities in which they slide. It would have been obvious to modify the tumbler segments of Olson to include part-cylindrical surface portions, in view of the teaching of Vonlanthen, the motivation being to strengthen the tumbler segments with additional mass.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Olson (734) in view of Widen (816).

In fig. 10, Widen teaches a tumbler 105 cooperating with a side bar 108. It would have been obvious to utilize a side bar(s) with the lock of Olson, in view of the teaching of Widen, the motivation being to optimize the picking resistance of the lock cylinder.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

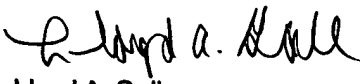
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lloyd A. Gall whose telephone number is 571-272-7056. The examiner can normally be reached on Monday-Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6843. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LG LG
July 29, 2005


Lloyd A. Gall
Primary Examiner